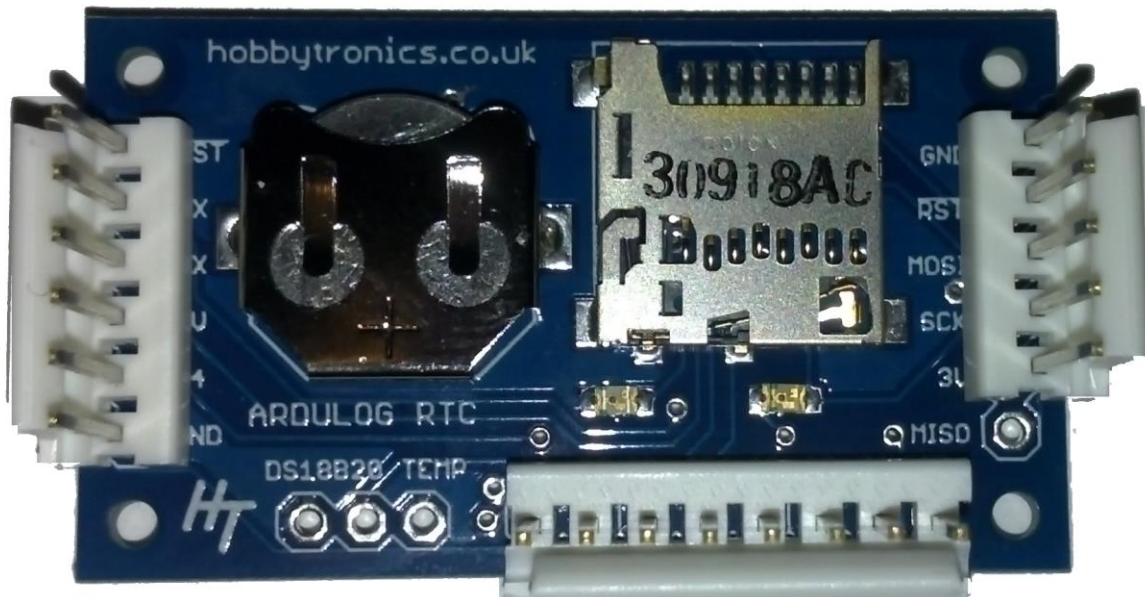


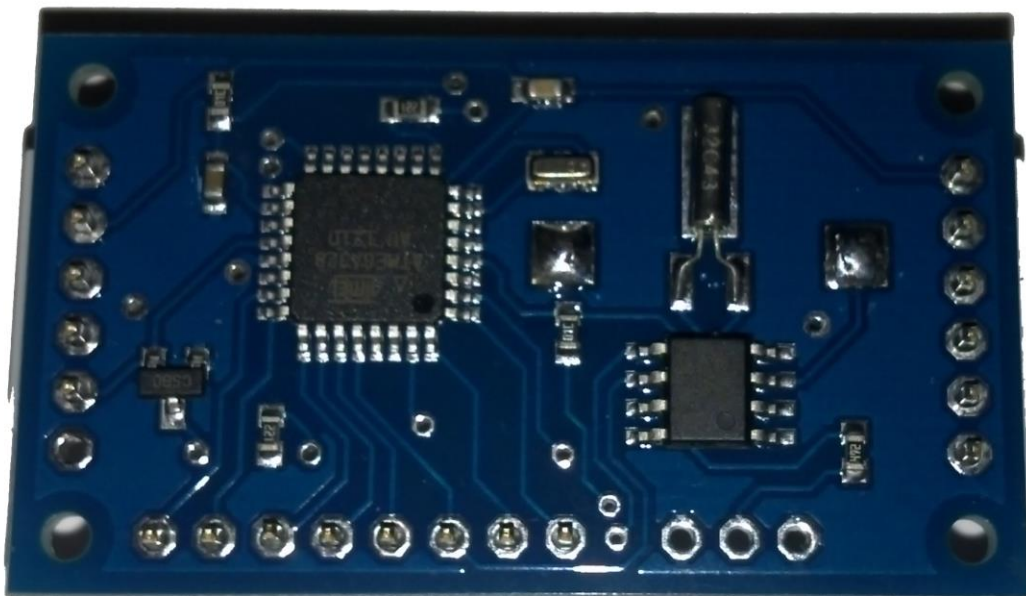
Assembly manual.

Assembling Data logger

Start by putting on the pin connectors into the appropriate spot as indicated. The six pin connector on the left side, five pin connector on the right side and the eight pin connector on the bottom row.



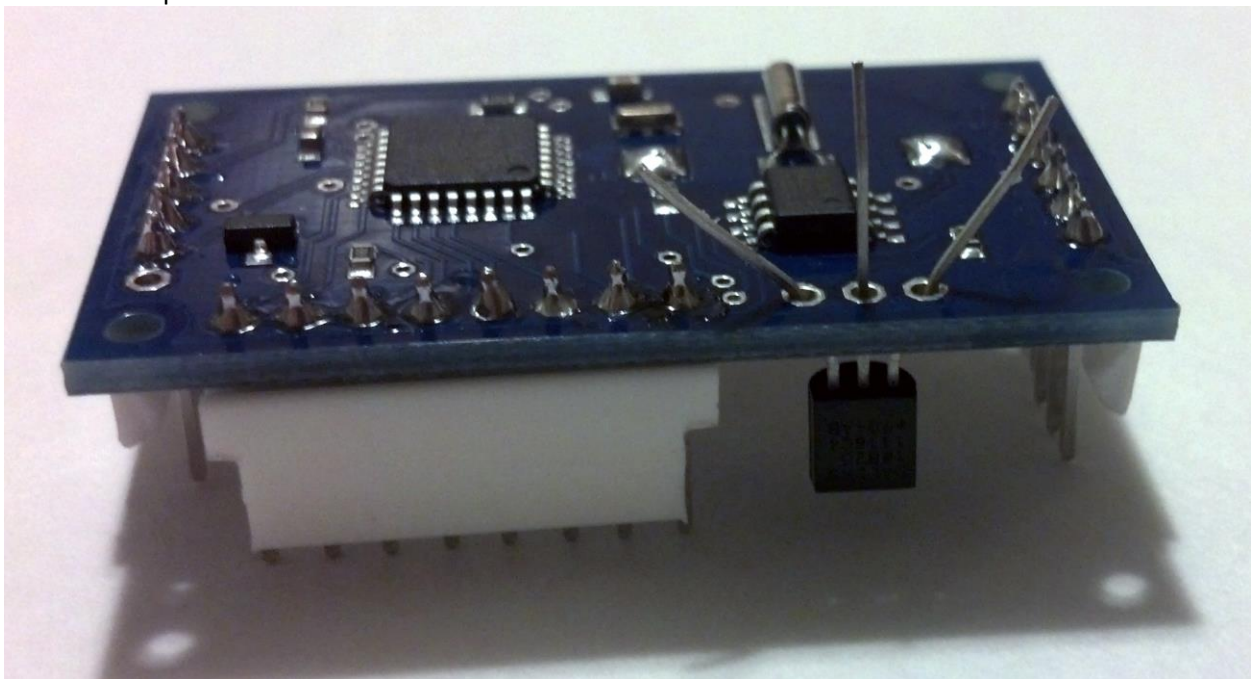
Flip over with leaving the connectors inserted and ensure they are approximately perpendicular to the board.



Solder the connectors on. Start with one pin and check to ensure it maintains perpendicular orientation.

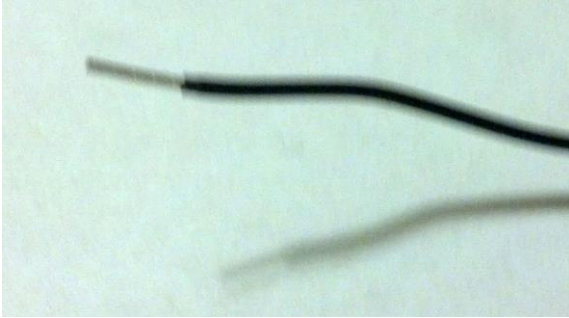


Install the Dallas temperature sensor with the flat part facing outward. Spread the two out leads to keep the device in place. Solder and trim the wires.

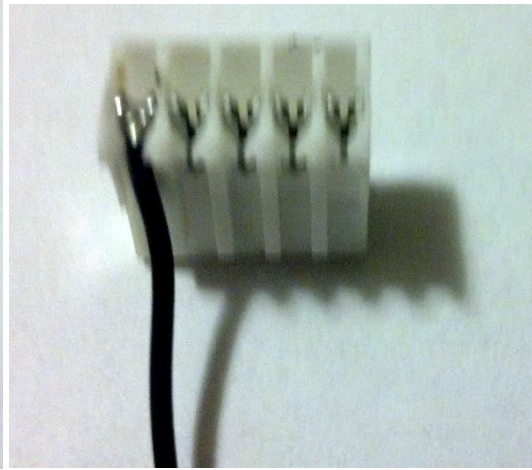
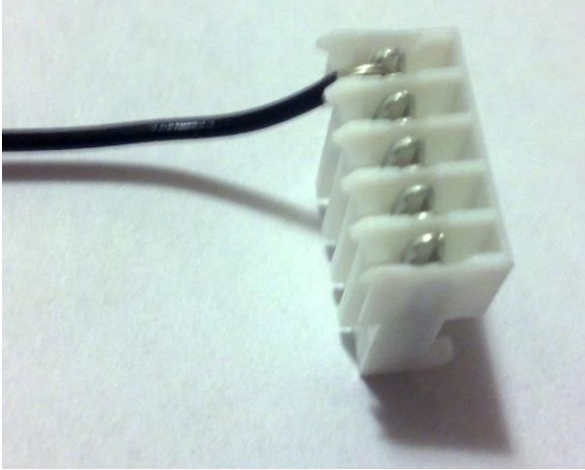


Making connectors:

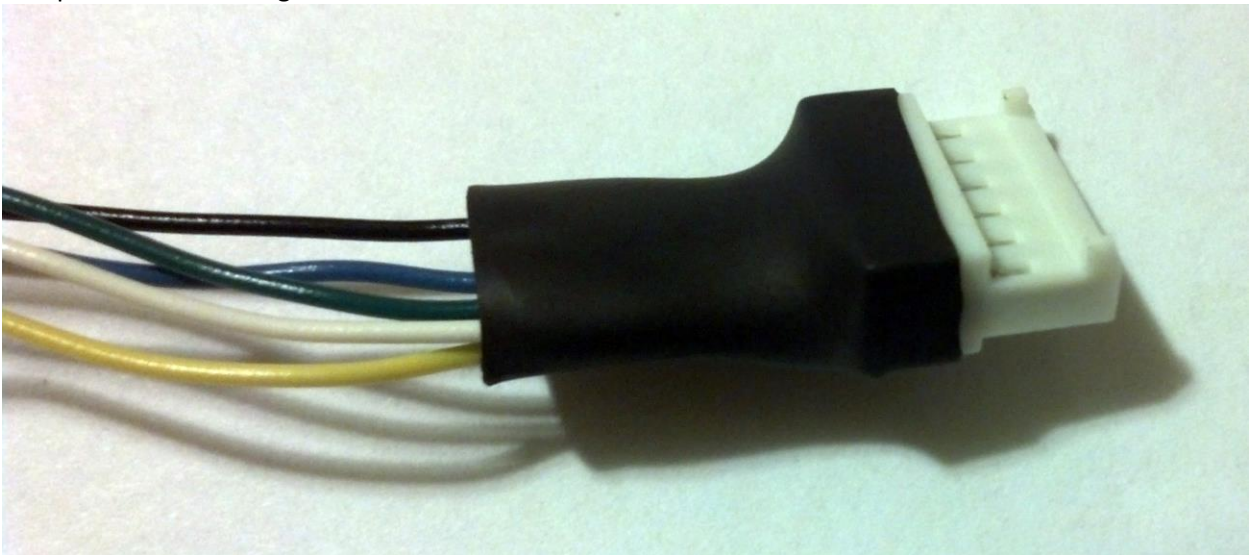
Strip the wire to be attached approximately 1/4th inch.



Insert the wire into the pin and fold down to secure into the connector. Then solder the wire into place.



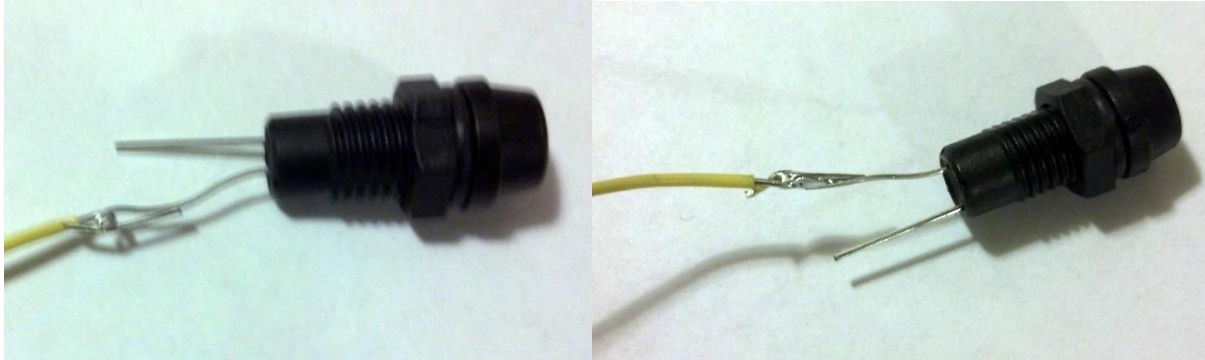
Complete the remaining wire in the same fashion and secure with heat shrink.



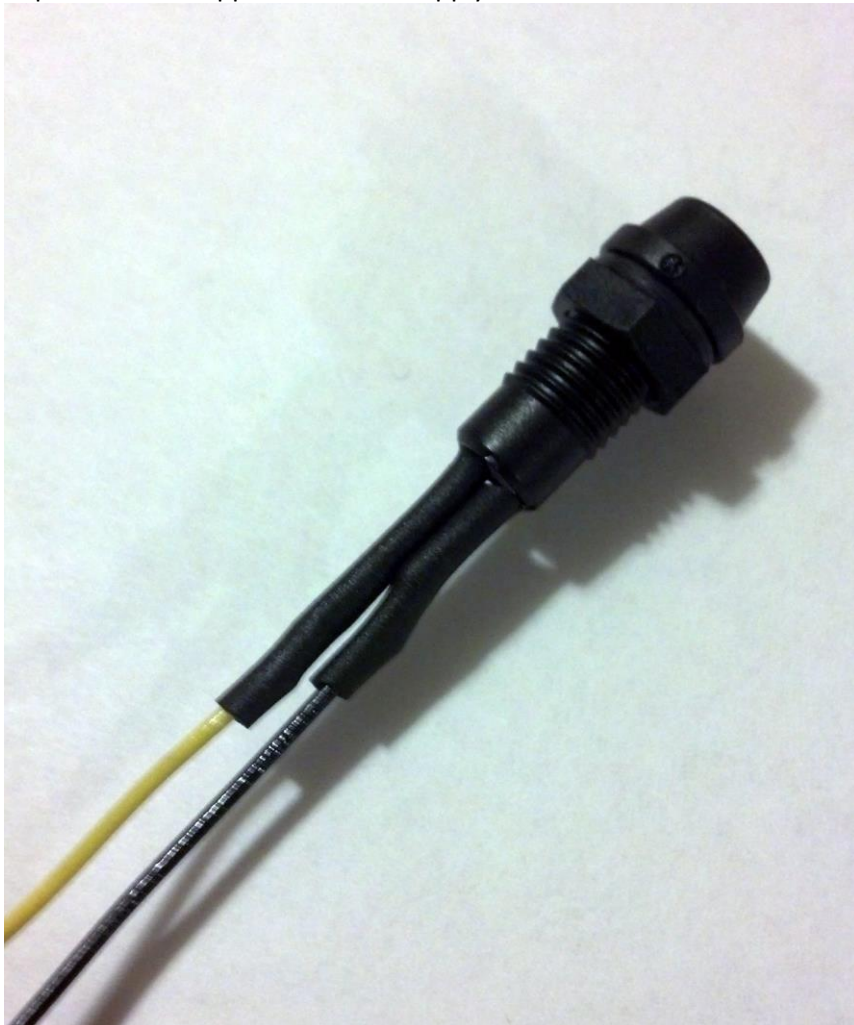
Peripherals:

LED

Make loop on LED lead and wire hooking them together. Apply solder to the connection.



Repeat with the opposite lead and apply heat shrink.



Battery box

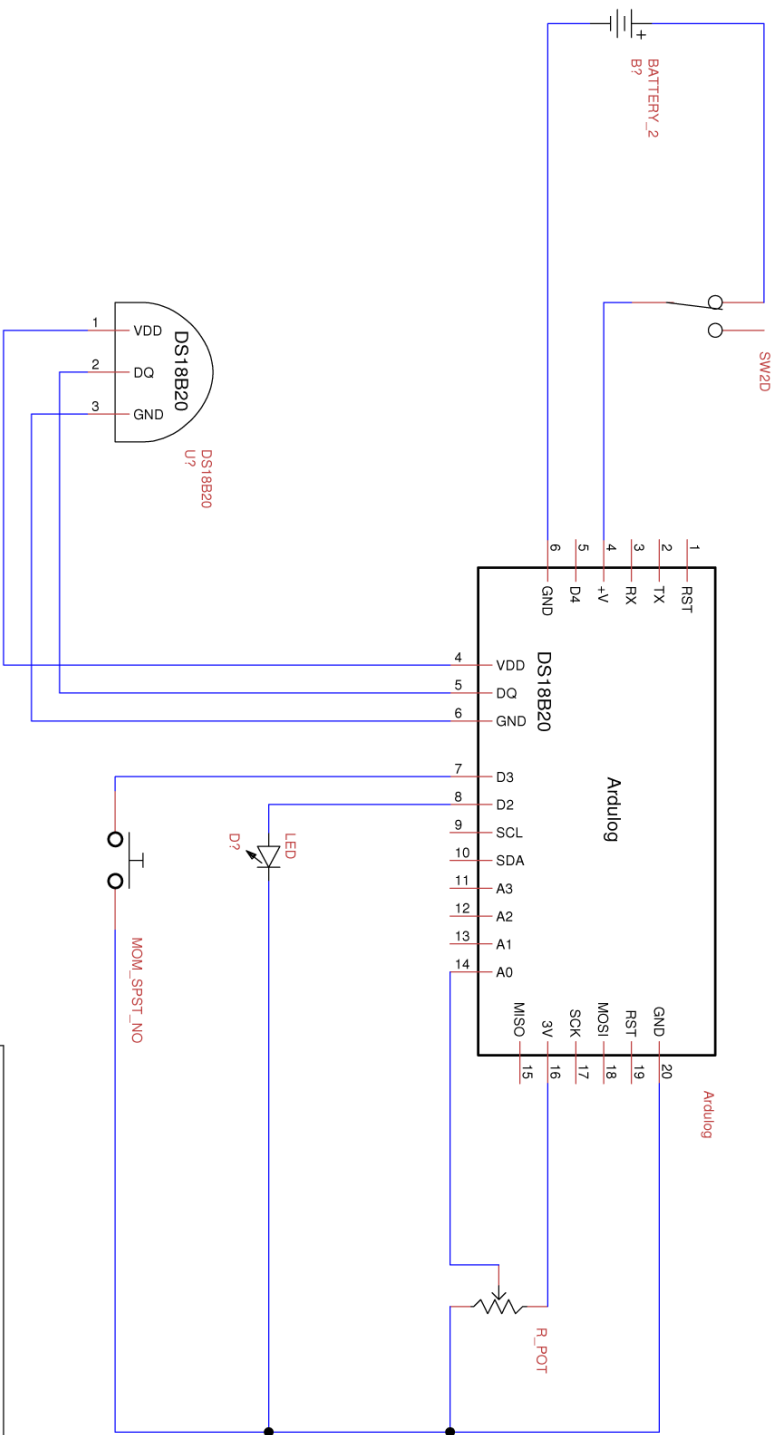
Make four pieces of wire with loops on the end of the appropriate length to connect to top and bottom leads together in series.



With all four wires on the battery box solder them in place.



Everything should be connected according to this diagram:



Title		Rain Gauge	
Author		Michael Kaminski	
File		Document	
nsknator\Documents\ECE480\arduino_wiring.dsn		1	
Revision		Sheets	
1.0		1 of 1	
Date		4/20/15	

Installation notes:

1. The long terminal of the LED is the anode and connect to the output pin.
2. With the potentiometer adjustment facing you the right most pin connects to the power, center is the analog input, and the left is grounded.
3. The LED also requires an intermittent connection for the removal and installation of the nut.